1111 311 123 1 F 1 AUTHORS: Kazanskiy, V.B., Docent, Rapeport, M.I., Engineer TITLE: The 25th Anniversary of the Founding of ORGRES (K 25-18-19, so 105-58. 5-22/28 PERIODICAL: Elektrichestvo, 1958, Nr 5, pp. 88-89 (USSR) ABSTRACT: In May 1958 it will be 25 years since the State Trust for the organization and rationalization of regional electric power plants and networks (ORGRES) of the Ministry for Electric Power Plants has been founded. The basic task to be performed by ORCRES is to render technical aid to plants in putting into operation and introducing new equipments for power engineering in order to increase the safety and economy of these plants. ORGRES has great experience in this field and worked out numerous schemes and constructions. The measures recommended are published by ORGRES as well as by the Ministry for Electric Power Stations. In the course of 25 years more than 200 electric power stations were able to start operating with the aid of ORGRES. The most important achievement during recent years was starting operation of the Kuybyshev hydraulic power station. ORGRES developed a number of measuring devices, published instruc-Card 1/2 tions for electrical equipment, and carried out work in connection

The 25th Anniversary of the Founding of ORGRES

with safety measures to be undertaken in connection with the automation of systems. Also a number of recommendations for the reduction of losses in networks, securing the necessary voltage, and for the economical distribution of active- and reactive loads were elaborated by ORGRES. Such problems as the reduction of staffs in substations and changing over to operation without the necessity of a permanent control of the steering panel are solved. On the Khot kov test stand the staff is trained for building and assembly work in connection with the 400 kV long-distance lines. The work carried out by ORGRES is coordinated with that performed by the Institutes (VEI, ENIN, NIIPT, WNIIE). ORGRES developed telemeters, for which achievement V.I. Ivankin, V.Ye. Kazanskiy, G.P. Minin and N.P.Lapshow were awarded the Stalin Prize. Among the new telemeters, the type T40-53 deserves to be mentioned, which was developed on the basis of T40-3. At present ar apparatus for automatic frequency- and power control developed according to the ORGRES method is being tested in the Ural power engineering systems and in the electric power stations of the Belorusenergo.

AVAILABLE:

Library of Congress

Card 2/2

1. Electric power production--Organization--USSR plants--Development 3. Electrical networks--Development

**APPROVED FOR RELEASE: 06/13/2000** CIA-RDP86-00513R000721320008-8"

24,2110

S/109/62/007/001/024/027 D266/D301

AUTHORS:

Kazanskiy, V.B., and Stepin, L.D.

TITLE:

Calculating the dielectric constant from measurements performed on an axially placed sample in a cylindrical H<sub>Oin</sub> resonator

PERIODICAL:

Radiotekhnika i elektronika, v. /, no. 1, 1962,

The dielectric constant  $\epsilon$  and the loss tangent tan  $\delta$  of liquid dielectrics can be obtained from measurements in a cylindrical Hoin resonator as explained in a previous paper of the authors and V.K. Tkach (Ref. 1: Radiotekhnika i elektronika, 1960, no. 12, 2009) The dielectric constant is expressed there in the following form

$$\xi = \frac{\beta^2 + k^2}{\beta^2 + k_0^2}$$

(1)

BORESKOV, G.K.; DZIS'KO, V.A.; YEMEL'YANOVA, V.M.; PECHERSKAYA, Yu.I.; KAZANSKIY, V.B.

Catalytic activity and electron paramagnetic spectra of molybdenum oxide catalysts for the polymerization of ethylene. Dokl. AN SSSR 150 no.4:829-832 Jo 163. (MIRA 16:6)

1. Institut kataliza Sibirskogo otdeleniya AN SSSR i Institut khimicheskoy fiziki AN SSSR. 2. Chlen-korrespondent AN SSSR (for Boreskov).

(Molybdenum catalysts-Spectra) (Polymerization)

KAZANSKIY, V.B.; MARCHENKO, A.I.; STEPIN, L.D.

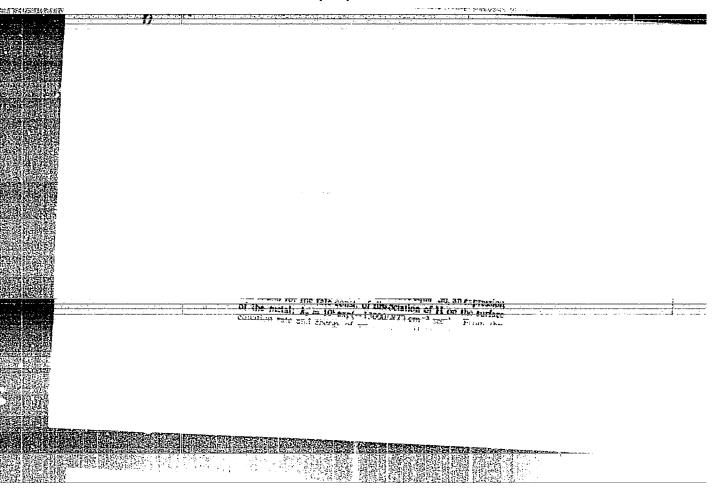
Circuit for measuring the dielectric constants of substances in the 3-cm. wavelength band. Prib. i tekh. eksp. 8 no.1:105-108 JA-F (MIRA 16:103)

1. Radiofizicheskiy fakul'tet Khar'kovskogo gosudarstvennogo universiteta.

(Electric measurements) (Dielectric constant)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320008-8"

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# APPROVED FOR AELEASE: v06/13/2000 odskCJA-RDP86-00513R000721320008-8"

TITLE:

Note on the Rôle of Hydrogen Atoms in the Catalytic

Oxydation of Hydrogen on Palladium (O roli atomov vodoroda v reaktsii kataliticheskogo okisleniya vodoroda na palladii).

PERIODICAL: Doklady AN SSSR, 1957, Vol. 116, Nr 4, pp. 633-635 (USSR)

ABSTRACT:

Wagner (Vagner) and Hauffe (Khauffe) (reference 2) investigated the mechanism of the catalytic oxydation of

hydrogen on metallic palladium by comparing the

stationary concentration of hydrogen atoms at the surface of the catalysator with the concentration corresponding to equilibrium. On this occasion the authors established, that a chain-like mechanism of this reaction is possible. The authors of this paper examined the final conclusions by Wagner (Vagner) and Hauffe (Khauffe) by an independent method, using a different experimental procedure. According to modern conceptions a dissociation of the hydrogen molecules at the surface of the metal takes place in the

adsorption and dissolution of hydrogen in metallic palladium, resulting in the formation of adsorbed atoms. The solution

Card 1/3

Note on the Rôle of Hydrogen Atoms in the Catalytic 20-4-29/51 Oxydation of Hydrogen on Palladium

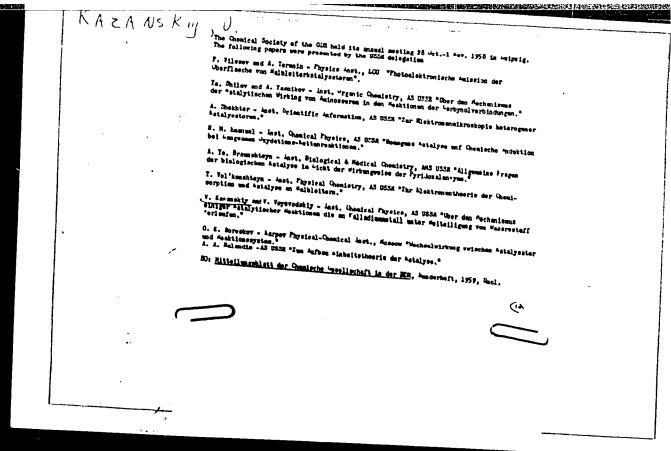
and diffusion of hydrogen within the metal apparently takes place in the form of ions. The authors compared the stationary concentration of the hydrogen atoms on the surface of the palladium with the concentration corresponding to equilibrium with the help of a diffusion process in a vacuum circulation apparatus. A capillary tube consisting of palladium served as a catalysator. The numerical data of the experimental arrangement are given here, and the occurse of the experiments is explained. The results from some of the experiments of the authors are compiled in a table. According to these data the stationary concentration of the hydrogen atoms in the reaction zone is considerably smaller than the concentration corresponding to equilibrium. For the purpose of a more precise investigation of the mechanism of the reaction, the authors computed the deviation of the stationary consentration of the hydrogen atoms at the surface of the catalysator fro m the equilibrium concentration with the assumption of a radical mechanism. The data computed in this way were then compared with the experiment. Oxygen does not modify the mechanism of this reaction. The

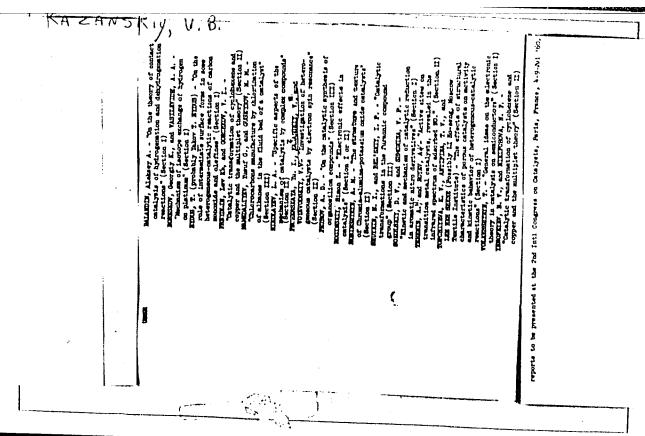
Card 2/3

AZANSKIY, V.B., Cond Chem Seis-(Nice) "Study of the medical of orthin cotalphic rections are strong of the horizontal of the strong of hydrogen on metallic pall dium." New, 2003. 20 pp (Inst of Chem Physics of the Acad Sci USSR), 150 copies (El., 25-38, 108)

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Translation from: Referativnyy zhurnal, Khimiya, 1960, No. 21, p. 50, # 83984

AUTHORS:

Kazanskiy, V. B., Voyevodskiy, V. V.

TITLE:

On the Problem of the Possibility of Chain Mechanisms at the Catalysis on Metals. An Investigation of the Mechanism of Some Catalytic Reactions on Metallic Palladium.

PERIODICAL: Probl. kinetiki i kataliza, 1960, Vol. 10, pp. 398-403

TEXT: The mechanism is studied of three catalytic reactions on metallic Pd at 150 - 300°C: the hydrogen exchange with deuterium, the oxidation of H2, and the hydrogenation of  $C_2H_{ij}$ . The reaction mechanism is radical in all the three

Summary of the authors

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

S/195/60/001/004/005/0:5 BO17/B055

AUTHORS:

Kazanskiy, V. B., Pariyskiy, G. B., Voyevodskiy, V. V.

TITLE:

A Study on the Properties of Hydrogen Atoms Adsorbed on Silica Gel Surfaces by Applying Electron Paramagnetic

PERIODICAL:

Kinetika i kataliz, 1960, Vol. 1, No. 4, pp. 539-541

TEXT: R. Livingston, H. Zeldes, E. H. Taylor (Ref. 1) and N. N. Bubnov, V. V. Voyevodskiy, L. S. Polyak and Yu. D. Tsvetkov found that under the influence of paradiation at liquid nitrogen temperature hydrogen atoms, detectable by the EPR method, are formed from adsorbed water molecules or OH groups on the surfaces of glass and silica gel. The properties of the hydrogen atoms adsorbed on the surface of silica gel were studied in the present publication. Co 60 was used as source of radiation. The EPR spectra were taken at liquid nitrogen temperature on a spectrometer with a high-frequency magnetic field. The spectra of the irradiated silica gel are represented graphically in a figure. The removal of hydrogen atoms from the silica gel surface in presence of ethylene was investigated, and

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**APPROVED FOR RELEASE: 06/13/2000** 

A Study on the Properties of Hydrogen Atoms Adsorbed on Silica Gel Surfaces by Applying Electron Paramagnetic Resonance

S/195/60/001/004/005/015 B017/B055

it was found that the desorption rate of hydrogen atoms in presence of ethylene exceeds the desorption rate in vacuum by a factor of thirty. Hydrogen atoms adsorbed at -100 to -150°C react with ethylene and oxygen. There are 1 figure and 3 references: 2 Soviet and 1 British.

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR (Institute of Chemical

SUBMITTED:

August 2, 1960

Card 2/2

# KAZANSKIY, V.B.; STRUNIN, V.P.

Nature of the temperature maximum of the reaction rate for the hydrogenation of ethylene on metals. Kin. i kat. 1 no. 4:553-557 N-D '60. (MIRA 13:12)

1. Institut khimichaskoy fiziki AN SSSR.
(Ethylene) (Hydrogenation)

20422

24.2110 (1153,1160,1164)

S/109/60/005/012/020/035 E192/E382

AUTHORS: Tkach.

Tkach, V.K., Stepin, L.D. and Kazanskiy, V.B.

TITLE:

Resonator Method of Measuring the Permittivity and

Loss Tangent of Liquid Dielectrics

PERIODICAL: Radiotekhnika i elektronika, 1960, Vol. 5, No. 12, pp. 2009 - 2014

TEXT: The resonator method provides means of accurate measurement of the permittivity and losses in dielectrics at microwaves. However, the measured sample is usually in the form of a disc and the method cannot be easily employed for measuring the permittivity and losses in liquids. It is proposed, therefore, that the measured sample be cylindrical and situated in the centre of the resonator parallel to its axis. For the purpose of the derivation of the formulae for the measurement, it is assumed that the resonator contains waves of the type  $H_{\rm Oln}$ . The solution of the Maxwell equations for the region occupied by the dielectric (0 < r < b where b is the radius of the sample) is given by Card 1/7

(1).

S/109/60/005/012/020/035 E192/E382

Resonator Method of Measuring the Permittivity and Loss Tangent of Liquid Dielectrics

$$\begin{split} H_{zx} &= -CJ_0(kr)\sin\beta z, \\ H_{rx} &= \frac{i\beta}{k}CJ_1(kr)\cos\beta z, \\ E_{\phi x} &= \frac{i\omega}{ck}CJ_1(kr)\sin\beta z, \end{split}$$

Where:

$$k^2 = \frac{\omega^2}{c^2} \epsilon - \beta^2$$

The fields in the region occupied by the air (b  $\langle r \rangle$  a where a is the internal radius of the resonator) are expressed by:

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S/109/60/005/012/020/035 E192/E382

Resonator Method of Measuring the Permittivity and Loss Tangent of Liquid Dielectrics

where:

$$k_{o}^{2} = \frac{\omega^{2}}{c^{2}} - \beta^{2}$$
 (2).

In these expressions, w is the angular frequency, c is the velocity of propagation,  $\beta = 2^{M}/\lambda_{B,Q}$  is the propagation constant, is the wavelength in the resonator.

The unknown k can be determined from the boundary condition at r = b and r = a. These conditions lead to the following expression:

Card 3/7

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S/109/60/005/012/020/035 E192/E382

Resonator Method of Measuring the Permittivity and Loss Tangent of Liquid Dielectrics

$$kb \frac{J_0(kb)}{J_1(kb)} = k_0 b \frac{J_0(k_0b)}{J_1(k_0b)} \cdot \frac{1 - \frac{J_1(k_0a)}{Y_1(k_0a)} \frac{Y_0(k_0b)}{J_0(k_0b)}}{1 - \frac{J_1(k_0a)}{Y_1(k_0a)} \frac{Y_1(k_0b)}{J_1(k_0b)}}.$$
(3)

The quantity kb can be evaluated from Eq. (3). A special table is given for this purpose. The tangent of the loss angle tg  $\delta$  is approximately expressed by:

$$tg \delta = \frac{W_0}{W_0} \left( \frac{1}{Q} - \frac{1}{Q_0} \right) \tag{7}$$

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Resonator Method of Measuring the Permittivity and Loss Tangent of Liquid Dielectrics

where W is the energy stored in the region b  $\langle r \langle a \rangle$ , Whis the energy stored in the region  $0 \langle r \langle b \rangle$ ,

Q is the quality factor of the resonator with the sample, of is the quality factor of the resonator without the sample.

The final theoretical expression for the loss tangent is in the form:

$$\lg \delta = \frac{k^2}{k_0^2 e} \frac{a^2}{b^2} \frac{J_0^2(kb)}{J_0^2(k_0b)} \frac{F_1(k_0a)}{F_1(kb)} \left[ \frac{1}{Q} - \frac{1}{Q_0} \right]. \tag{11}$$

The method proposed above was investigated experimentally. The resonator used in the experiments was made of brass and had an internal diameter 2a = 5.908 cm and a length of Card 5/7

- 20422

S/109/60/005/012/020/035 E192/E382

Resonator Method of Measuring the Permittivity and Loss Tangent of Liquid Dielectrics

14.9 cm. The resonator operated in the H<sub>Oll</sub> mode and its quality factor was 3790; the position of the plunger in the resonator could be varied by means of a micrometer screw and could be determined with an error of + 0.002 mm. The resonant frequency of the system could be accurately measured by means of a cavity wavemeter. The permittivity and the loss tangent of the sample were based on the determination of the resonant wavelength and the magnitude of the quality factors of the resonator itself and the resonator with the sample. Some solid and liquid dielectrics were investigated (organic glass, ebonite, ethyl alcohol, benzole acetone and distilled water). The measured values are indicated in a table. From this it is seen that the results are in good agreement with the data available from literature. The method

Card 6/7

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Resonator Method of Measuring the Permittivity and Loss Tangent of Liquid Dielectrics

permits the measurement of permittivity with an average square error of not more than 3% and that of the loss tangent with an error of not more than 9%. There are 2 figures, 2tables and 9 references: 8 Soviet and 1 non-Soviet.

SUBMITTED: January 16, 1960

Card 7/?

CIA-RDP86-00513R000721320008-8" APPROVED FOR RELEASE: 06/13/2000

AUTHORS:

Kazanskiy, V. B., Pecherskaya, Yu. I.

\$/076/60/034/02/039/044

B010/B007

TITLE:

Paramagnetic Electron Resonance in Irradiated Aluminum Oxide

PERIODICAL:

Zhurnal fizicheskoy khimii, 1960, Vol 34, Nr 2, p 477 (USSR)

ABSTRACT:

At -196°C gamma aluminum oxide was irradiated with Co 60 gamma rays in a vacuum and investigated according to the method of paramagnetic electron resonance. A complicated signal with a g-factor of about 2 was observed (Fig a), which did not change also after a prolonged storage at -196°C. Storage for some hours at room temperature led to a change in the signal, in which case the intensity of the left line  $(g \approx 2)$  decreased considerably, whereas the right line remained unchanged (Fig b). Here intensity decreased by about 10 times its amount. This decrease of the signal and observations made by Taylor and Kohn (Ref 1) are explained by the fact that the signal is in correlation with the centers of aluminum oxide, which are responsible for increased catalytic activity.

ASSOCIATION: Akademiya nauk SSSR Institut khimicheskoy fiziki Moskva (Academy of Sciences of the USSR, Institute of Chemical Physics, Moscow)

Card 1/2

Paramagnetic Electron Resonance in Irradiated

July 31, 1959

s/076/60/034/02/039/044 B010/B007

Card 2/2

SUBMITTED:

#### APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320008-8"

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21769

s/195/61/002/002/004/304 B101/B208

AUTHORS:

Mishchenko, Yu. A., Boreskov, G. K., Kazanskiy, V. B.,

TITLE:

Effect of ionizing radiation on the catalytic and magnetic properties of titanium dioxide

PERIODICAL:

Kinetika i kataliz, v. 2, no. 2, 1961, 296

TEXT: Several papers published in the course of the last years studied the possibility of changing the catalytic properties of solids under the influence of high-energy radiation. Kohn and Taylor (Refs. 1, 2) observed a considerable effect of gamma and neutron radiations on the catalytic properties of  $Al_2O_3$  and of catalysts on  $SiO_2$  basis (Ref. 3) in the isotopic H - D exchange. It was the purpose of the present study to investigate the effect of gamma radiation on catalytic and magnetic properties of TiO2. The catalytic properties were studied by H - D exchange; the magnetic properties by electron paramagnetic resonance. The TiO2 samples consisted of anatase with specific surface of the order 130 m $^2/g$ . TiO $_2$  was heated to 500°C for several

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Effect of ...

hours at 10"5 mm Hg prior to irradiation. The samples thus treated exhibited no marked catalytic properties at OoC. They were now irradiated with gamma rays of Co 60 in vacuo at the temperature of liquid nitrogen with 120 r/sec. The integral dose was about 1.7.107 r. The irradiated samples showed high catalytic activity at the temperature of liquid nitrogen. The catalytic activity was increased by at least 3-4 orders of magnitude. Heating of the irradiated samples to OoC considerably decreased the catalytic activity. The constant of the reaction rate at OOC 1 hr after thawing was by about two orders of magnitudes smaller than at the temperature of liquid nitrogen. The TiO<sub>2</sub> samples heated in vacuo at 500°C showed no signal when the epr spectrum was taken. At the temperature of liquid nitrogen, the samples irradiated gave a signal with well-resolved hyperfine structure, total width 400 oersteds, g factor approximately 2. The signal does not change if the sample is stored at the temperature of liquid nitrogen. Short heating to room temperature reduced intensity and changed the shape of the signal. When the samples were kept for 1 hr at room temperature the signal became stable. This parallelism in the changes of catalytic activity and epr signal was also observable in silica gel (Refs. 3-5) and  ${\rm Al}_2{\rm O}_3$  (Refs. 2, 6). It

Card 2/3

## "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320008-8

KAZANSKIY, V. B., PARIYSKIY, G. B., VOYEVODSKIY, Vladislav V.

"Fadiation induced surface reactions in silicagel."

report to be submitted for the Faraday Society, General Discussion on Radiation Effects in Inorganic Solids, Gif-sur-Yvette (Seine-et-Oise), France, 11-12 Apr 1961.

Inst. of Chemical Physics, Acad. Sci. USSR, Moscow.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320008-8"

MISHCHENKO, Yu. A.; BORESKOV, G.K.; KAZANSKIY, V.B.; PARIYSKIY, G.B.

Effect of ionizing radiation on the catalytic and magnetic properties of titanium dioxide. Kin. i kat. 2 no.2:296 Mr-Ap '61.

(MIRA 14:6)

1. Fiziko-khimicheskiy institut imeni L. Ya. Karpova. (Titanium oxide) (Gamma rays)

S/195/61/002/003/008/009 E071/E412

AUTHORS: Kazanskiy, V.

Kazanskiy, V.B., Pecherskaya, Yu.I.

TITLE:

An investigation of aluminachrome catalysts by the method of electron paramagnetic resonance

PERIODICAL: Kinetika i kataliz, v.2, no.3, 1961, 454.461

Since the formation of chromium of an intermediate valency in chromium catalysts may be useful in explaining the nature of their catalytic activity, the authors investigated the process of decomposition of chromic anhydride on alumina by the DNP (EPR) Specimens of catalysts were prepared by shaking method. γ alumina (specific surface area about 180 m<sup>2</sup>/g) with aqueous solutions of chromic acid of various concentrations. filtering, the alumina was ignited in a stream of air at 350°C or at 500°C for 8 hours. The reduction of the catalyst was done in a stream of dry hydrogen at 360 or 500°C for 5 hours. After which it was cooled to 30 to 50°C in nitrogen. The content of chromium in the specimens (which varied from  $\tilde{0}.2$  to 11.4%) was done by chemical analysis. The EPR spectra were taken with an EPR-2 spectrometer operating at 9400 millimegacycles ( $\lambda$  = 3.2 cm) with a variation of the magnetic field from 0 to 8000 oersted. Card 1/5

S/195/61/002/003/008/009 E071/E412

An investigation of aluminachrome ... F

Occasionally an instrument with  $\lambda$  = 21.8 cm and Hp = 500 oersted was used. The intensity of the signals observed was determined by comparison with the spectrum of a monocrystal of CuCi2 2H2O. The EPR spectra of the specimens, containing up to 9,2% of Crand ignited in air at 350, contained only one resonance line At a higher chromium  $4\overline{4}$  oersted wide with g-factor = 1.97. content this line is observed on a background of a wide resonance absorption line. After reduction in hydrogen at 350°C the intensity of the wide line (characterizing microcrystals of reduced Cr203) increases and the intensity of the narrow line decreases but it is still present at a chromium content of from 0.4 to 2.5%. On reduction at 500°C, the narrow line disappears from the spectra of all specimens. If a so reduced catalyst is heated in air at 300°C, the narrow line reappears. The influence of oxygen on the narrow EPR line was determined at room temperature and at = 196°C. At room temperature with increasing oxygen pressure, the amplitude of the signal decreases and its width increases, whereupon the thange is reversible prolonged retention of the specimens in air, an irrecersible decrease in the intensity of the narrow line was observed. Card 2/5

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320008-8"

S/195/61/002/003/008/009 An investigation of aluminachrome ... E071/E412

is apparently due to the oxidation of all chromium to the sixvalent state. At -196°C, a decrease in the intensity of the narrow line without an increase in its width was observed. influence of temperature was studied within a range of -196 to The width of the line is independent of temperature but its intensity obeys the Curie-Weiss law with the value of the Weiss constant  $\triangle = 25^{\circ}$ K. The results obtained indicated that the phase giving the narrow line in the EPR spectra of aluminochrome catalysts is bound to the surface of the carrier and that its thickness does not exceed a few atomic layers. A comparison of the EPR spectra at various frequencies indicated that the width of the line and its g-factor remain constant, thus chromium ions, responsible for the narrow line, do not possess a fine structure, i.e. the line corresponds to Cr5+ ions. The above conclusion is The above conclusion is in line with other results obtained in this work, e.g. the disappearance of the line for catalysts reduced at 500°C can be explained by the reduction of all chromium to the trivalent state. The narrow line was never observed by the authors in the EPR spectra of various chromium oxides without carriers. For chromium

Card 3/5

S/195/61/002/003/008/009 An investigation of aluminachrome ... E071/E412

catalysts in which aluminosilicates or silicagel were used as carriers, the narrow EPR line is asymmetrical. The above indicates the strong influence of the carrier. In general compounds of pentavalent chromium are unstable and the existence of Cr5+ ions in chromium oxide catalysts on carriers is apparently related to the stabilizing effect of the crystal lattice of the base. Acknowledgments are expressed to N.Ya.Buben for measurements. A. V. Topchiyev, V.A. Krentsel' R.Michail, P.Corlateanu and A.Ionesco are mentioned for their contributions in this field. There are 6 figures, 1 table and 17 references: 10 Soviet-bloc, 1 Russian translation from non-Soviet authors and 6 non-Soviet-bloc. The four references to English language publications read as follows: Ref. 4: R. Michail, P. Corlateanu, A. Ionesco, J. Chim. Phys., v. 56, 568, 1959; Ref. 5: J. Matzunaga, Bull. Chem. Soc. Japan, v.31, 745, 1958; Ref.11: D.E.O'Reilly, D.S.MacIver, Symposium on technique on study of catalysis mechanism, Boston, April 5-10, 1959; Ref.16: P.W.Anderson, P.R.Weiss, Rev. Mod. Phys., v.25, 269, 1953.

Card 4/5

**美国条约和**指数10000

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320008-8"

KAZANSKIY, V.B.; PARIYSKIY, G.B.

Electronic paramagnetic resonance spectrum of ethyl radicals adsorbed on a silica gel surface. Kin.i kat. 2 no.4:507-508 Jl-Ag '61. (MIMA 14:10)

1. Institut khimicheskoy fiziki AN SSSR.
(Radicals (Chemistry)—Spectra)

KAZANSKIY, V.B.; YEZHKOVA, Z.I.; LYUBARSKIY, A.G.; VOYEVODSKIY, V.V.;

Electron paramagnetic resonance study of the structure of vanadium-molybdenum oxide catalysts. Kin.i kat. 2 no.6:862-866 N-D '61. (MIRA 14:12)

l. Institut khimicheskoy fiziki AN SSSR i Institut organicheskikh poluproduktov i krasiteley imeni K.Ye. Voroshilova. (Catalysts---Spectra)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320008-8"

RODE, T.V.; KAZANSKIY, V.B.; PECHERSKAYA, Yu.I. (Moscow)

Electron magnetic resonance study of chromium oxides. Zhur.fiz.-khim. 35 no.10:2370-2375 0 61. (MIRA 14:11)

1. Akademiya nauk SSR, Institut obshchey i neorganicheskoy khimii imeni N.S.Kurnakova.

(Chromium oxide--Spectra)

PECHERSKAYA, Yu.I.; KAZANSKIY, V.B.; VOYEVODSKIY, V.V.

**斯拉斯特斯斯德治斯** 

Electron paramagnetic resonance studies of the thermal activation of chromium gel. Kin.i kat. 3 no.1:111-113 '62. (MIRA 15:3)

1. Institut khimicheskoy fiziki AN SSSR. (Chromium) (Catalysis)

### "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320008-8

S/051/62/013/001/005/019 E039/E420

AUTHORS: Kazanskiy, V.B., Pariyskiy, G.B., Burshteyn, A.I.

TITLE: Study of the properties of hydrogen atoms formed

during Y-irradiation of silica gel, using the electron

paramagnetic resonance method

PERIODICAL: Optika i spektroskopiya, v.13, no.1, 1962, 83-89

TEXT: Measurements are made of the spin-lattice relaxation time  $T_1$  of atoms of hydrogen, formed by  $\gamma$ -irradiation of silica gel, from its surface hydroxyl groups or molecules of adsorbed water on its surface. The silica gel was prepared by the action of sulphuric acid on a solution of sodium silicate. Acid was added until pH = 0; the precipitate was then separated, washed and dried for 4 hours at 500°C. This produced a gel with a surface of  $300 \pm 25$  m<sup>2</sup>/g. Before exposure, the gel was heated for 10 hours at 400 to 500°C at a pressure of  $10^{-5}$  mm Hg in a glass ampule and then sealed off under vacuum. Irradiation was performed at -196°C using a -196°C using a -196°C using a -196°C and compared with results obtained for the case where part Card -196°C and compared with results obtained for the case where part Card -196°C and compared with results obtained for the case where part

Study of the properties ...

S/051/62/013/001/005/019 E039/E420

of the hydrogen of the surface hydroxyl groups was replaced with deuterium and the effect of radiation defects observed. The dependence of the ratio of the amplitude of the signal for hydrogen atoms to the amplitude of the signal for diphenyl-picryl-hydrazyl with microwave power was also investigated. It is shown that the curve for hydrogen in a vacuum falls well below the curve for the case of hydrogen in the presence of adsorbed oxygen. The spin lattice relaxation time T<sub>1</sub> for hydrogen in a vacuum is about 10<sup>-4</sup> sec. Atoms of hydrogen are stabilized on the surface of the gel in spaces in the crystal lattice which are of sufficient size. There are 5 figures.

SUBMITTED: June 2, 1961

Card 2/2

KAZANSKIY, V.B.; PARIYSKIY, G.B.; BURSHTEYN, A.I.

Using the electron paramagnetic resonance method in studying the properties of hydrogen atoms formed by -irradiation of silica gel. Opt.1 spektr. 13 no.1:83-89 J1 162. (MIRA 15:7) (Paramagnetic resonance and relaxation) (Silica) (Hydrogen)

#### S/844/62/000/000/113/129 D207/D307

AUTHORS: Kazanskiy, V. B., Pariskiy, G. B. and Voyevodskiy, V. V.

TITLE: An EPR study of the properties of hydrogen atoms and of

defects formed on the irradiation of silica gel

SOURCE: Trudy II Vsesoyuznogo soveshchaniya po radiatsionnoy khi-

mii. Ed. by L. S. Polak. Moscow, Izd-vo AN SSSR, 1962,

656-659

Card 1/2

TEXT: Silica gel was investigated because of its special adsorption and catalytic properties. The gel had a specific surface area of 200 m²/g and contained less than 0.1% Fe and Al impurities. It was irradiated with Co<sup>60</sup> y rays, in vacuum, at -196°C and at room temperature, with doses of 5 - 10 megarads. After irradiation at -196°C the ErR spectrum (recorded at the same temperature) indicated the presence of radiation defects and free hydrogen atoms, the latter being formed by radiolysis of the surface OH groups; the H-atom concentration increased with the temperature (200 - 500°C) to which the gel was heated before irradiation. On vacuum

KAZANSKIY, V.B.; STEPIN, L.D.

Concerning the methodology for calculating the dielectric constants of substances measured by a method involving the use of a cylindrical Holn resonator with axial arrangement of the samples. Radiotekt. i elektron. 7 no.1:173-175 Ja '62. (MIRA 15:1)

1. Khar'kovskiy gosudarstvennyy universitet im. A.M.Gor'kogo, kafedra radiospektroskopii.

(Dielectrics)

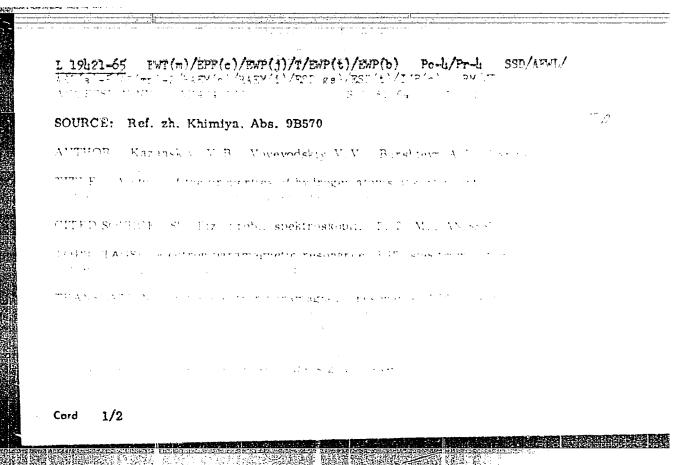
KAZANSKIY, V.B., PARIYSKIY, G.B.

"ESR studies of the reactivity and structure of free radicals stablized on solid surfaces."

Report submitted to the Sixth Intl. Symp. on Free Radicals, Cambridge, England 2-5 July 1963

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320008-8"

### "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320008-8



#### "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320008-8

L 19421-65

ACCESSION NR: AR4048175

to the H atoms. Addition of O2 and C2H4 increased the rate of recombination of H atoms. Thus, at -150°C, the rate of recombination in the presence of C2H4 was in reason. The authors explain the effect of such additions on their reaction with at moconfirmed by the superspace of additional components in the FPR spectral threating in the pre-spectral which which resembled the spectrum of the errors of FPR. Since the components of the policy of the errors of the first of the following the first of th

SUB CODE: GC, GP

ENCL: 00

Cord 2/2

KAZANSKIY, V.B.; PECHERSKAYA, Yu.I.

Changes in electron paramagnetic resonance spectra of chromis-aluminosilicate catalysts for ethylene polymerization induced by reaction components. Kin.i kat. 4 no.2:244-251 Mr-Ap 163.

(MIRA 16:5)

1. Institut khimicheskoy fiziki AN SSSR. (Chromium catalysts—Spectra)(Polymerization)(Aluminosilicates)

PARIYSKIY, G.B.; ZHIDOMIROV, G.M.; KAZANSKIY, V.B.

Speckrum of electron paramagnetic resonance of a methyl radical adsorbed on the silica gel surface. Zhur.strukt.khim. 4 no.3: 364-367 My-Je '63. (MIRA 16:6)

1. Institut khimicheskoy fiziki AN SSSR.

(Methyl group--Spectra)

45354

S/181/63/005/002/043/051 B102/B186

5.4400

Kazanskiy, V. B., Pariyskiy, G. B., Aleksandrov, I. V., and

AUTHORS: Kazanskiy, V. B., Zhidomirov. G. M.

TITLE: Investigation of the interaction of free radicals with the surface of a solid (silica gel) by the e.p.n. spectra

PERIODICAL: Fizika tverdogo tela, v. 5, no. 2, 1963, 649 - 659

TEXT: The authors give a detailed analysis of the e.p.r. spectra of atomic hydrogen, methyl, ethyl and polymer radicals adsorbed on several types of silica gels (specific surfaces 290, 300, and  $700 \text{ m}^2/\text{g}$ ). The studies were made in order to obtain information on the nature and the geometry of binding and the motions in the absorbed state. The e.p.r. spectra were taken at  $\lambda = 3.2 \text{ cm}$  and a hf modulation frequency of 1 Mc. The app spectaken at  $\lambda = 3.2 \text{ cm}$  and a hf modulation frequency of adsorbed hydrogen is characterized by a hyperfine splitting constant trum of adsorbed hydrogen is characterized by a hyperfine splitting constant of  $\lambda = 1411\pm0.1 \text{ Mc}$  (for free hydrogen it is  $\lambda = 1420.40 \text{ Mc}$ ) and a great

asymmetry of the components. On the basis of the present authors' earlier results (Kinetika i kataliz I, no. 4, 539, 1960) the hyperfine splitting

Card 1/3

8/181/63/005/002/043/05 B102/B186

Investigation of the ...

constants  $A_{\perp}$  and  $A_{\parallel}$  for  $\vec{H} \perp \vec{E}$  and  $\vec{H} \parallel \vec{E}$ ) are calculated:

$$A_{\perp} = A_{ss} = A_{yy} = A - \frac{47}{60} \frac{\mu_{c} \mu_{b}}{a_{0}^{3}} \lambda^{2}; \tag{4a}$$

$$A_{\parallel} = A_{\mu} = A + \frac{47}{30} \frac{\mu_{A} \mu_{a}}{a^{3}} \lambda^{3};$$
 (4b)

$$A = \frac{8}{3} \frac{\mu_0 \mu_0}{a^3} (1 - 15.5 \lambda^2) = A_0 (1 - 15.5 \lambda^2); \quad (4c)$$

The anisotropy of hyperfine splitting is obtained as

(5); z || E and perpendicular to the surface. The vanisotropy of the g-factor,  $\Delta g = g_{\parallel} - g_{\perp}$ , is very weak ( $\sim 10^{-6}$ ) and not to be observed in experiment. The polarization energy of the hydrogen atom in the E field was obtained as ~1 kcal/mole. The apr. spectrum of deuterium atoms adsorbed on SiO2 is considerably narrower and is symmetrical, with smaller amplitudes of the side components. The e.p.r. spectrum of the methyl radicals was measured at -196°C; it consists of four hyper-

fine structural lines with a distance of 23.1+0.1 oe and with an amplitude ratio of 1:8.5:13:2.5. instead of 1:3:3:1. This can be ex-Card 2/3

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721320008-8"

KAZANSKIY, V.B.; STEPIN, L.D.; TKACH, V.K.

Use of a new variant of the resonator method for measuring dielectric constants for the study of high molecular weight compounds. Biofizika 8 no.1:112-116 63. (MIRA 17:8)

1. Khar'kovskiy gosudarstvennyy universitet imeni Cor'kogo.

# APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-005/37900723220008-8" 8/020/63/1986

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AUTHORS:

Vladimirova, V. I., Zhabrova, G. M., Kadenatsi, B. M.,

Kazanskiy, V. B., Pariyskiy, G. B.

TITLE:

Joint action of radiation and oxide catalysts on the

dehydrogenation of cyclohexane

· PERIODICAL:

Akademiya nauk SSSR. Doklady, v. 148, no. 1, 1963, 101-104

TEXT: The radiation effect on catalytic systems is studied in the dehydrogenation of cyclohexane activated by SiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>, MgO, ZrO<sub>2</sub>, ZnO, or NiO. After a vacuum pretreatment of the catalyst at 400°C, cyclohexane vapors were led over it. The determinations concerned: 1) the hexane vapors were led over it. The determinations concerned: 1) the catalytic properties after irradiation with 0.8 Mev electrons at room catalytic properties after irradiation with 0.8 Mev electrons at room temperature, dose 2.4·10<sup>6</sup> rad/sec, energy absorption 1.4·10<sup>9</sup> rad; 2) the paramagnetic properties after gamma irradiation with Co60 at - 196°C, paramagnetic properties after gamma irradiation with Co60 at - 196°C, dose 3200 mcu, energy absorption 5·10<sup>6</sup> - 1·10<sup>8</sup> rad. 1) A low-temperature dehydrogenation of cyclohexanone took place. Good results were obtained

Card 1/3

5/020/63/148/001/021/032

Joint action of radiation and ...

their different electron properties. In dielectrics and poor semiconductors the radiation-induced ionization is stronger, since the electrons and holes formed are longer trapped and the paramagnetic centers are resistant at low temperatures, while they vanish so rapidly in ZnO and NiO that no e.p.r. signals could be recorded. There are 2 figures and 1 table.

Institut khimicheskoy fiziki Akademii nauk SSSR (Institute ASSOCIATION:

of Chemical Physics of the Academy of Sciences USSR)

PRESENTED:

July 30, 1962, by V. N. Kondrat! yev, Academician

· SUBMITTED:

July 19, 1962

**APPROVED FOR RELEASE: 06/13/2000** CIA-RDP86-00513R000721320008 Card 3/3

"narrow" or initial signal falls, and after 20 mm the signal cannot be observed. Influences of the oxygen on the signal are invertible. The paper was presented by Academician V. N. Kondrat'yev on 3 April 1963. Orig. art. has: 2 figures and 1\_ table.

Chemical Physics

Cord 1/2

### "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320008-8

KAZANSKIY, V. B.; PARTYSKIY, G. B.

"The e.s.r. study of free radicals adsorbed on catalysts."

report submitted to 3rd Intl Cong on Catalysis, Amsterdam, 20-25 Jul 64.

Inst of Chemical Physics, AS USSR, Moscow.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320008-8"

L 15296-65 TENT(m)/EPP(c)/EWP(j) Pc-4/Pr-4/Pa-4 DIAAP RN ACCESSION NR: /P4047688 \$/0204/64/004/005/0753/0762

AUTHOR: Zhabrova, G. M., Kazanskiy, V.B., Vladimirova, V.I., Kadenatsi, B.M., Partyekly,

MITLE: Radiation catalysis in the conversion of cyclohexane

SOURCE: Nefrekhimiya, v. 4, no. 5, 1964, 753-762

TOPIC TAGS: cyclohexane, radiation catalysis, dehydrogenation, catalytic dehydrosenation

ABSTRACT: The joint effect of ionizing radiation ( $\sqrt{\ }$  - rays from  $\cos^{60}$ ) and of catalysts with different electrical properties, such as insulators ( $\sin^2 2$ ,  $\sin^2 3$ , aluminum silicate), semiconductors having low conductivity (MgO,  $2\pi^2$ ), semiconductors having high conductivity ( $2\pi^2$ 0, NiO) and some metals ( $7\pi$ 2 Pt on  $8\pi^2$ 0, NiO), was investigated with respect to dehydrogenation and other reactions of cyclorhexane in the adsorbed layer at temperatures from 20 to -1960. For comparison, the catalytic activity of non-irradiated samples was also studied. Cyclohexane and benzene were used as adsorbents, and EPR spectra were recorded. The sample with the adsorbed cyclohexane was irradiated at the temperature of liquid nitrogen, the dose varying from 1 x  $10^{2}$  to 1 x  $10^{8}$  rad. The selectivity of the invabilizated solid compounds in the radiation-excited catalytic process was es-

Cord 1/3

Cord 2/3

**的经验表现的重要的现在分词 医克里斯斯特氏的 (1965—1965),"**1965年(1965—1966—1966),"1965年(1966年),"1966年(1966年),"1966年),"1966年),"1966年),"1966年)

L 15296-65 ACCESSION NR: AP4047688 astablished as compared to the thermal catalytic process and homogeneous radiolysis. The highest radiation-induced catalytic activity was found at 200 for exides of the insulator type, which are hardly effective at all in the usual catalytic process even at high temperatures. In these catalysts, the The semiconductors and metals (NiO, ZnO, Ni) which are active in the ordinary catalytic process had a low radiation-induced catalytic activity. No appearance of paramagnetic centers and adsorbed radicals was found. The relationship | between the radiation-chemical yield of hydrogen and the coverage of the SiO2 surface with adsorbed cyclohexane was established and it was found that the initial parts of surface adsorption were the most radiation-active. It was also established that there is a strong relationship between the electrical properties of solds and their ability to transmit the energy of ionizing radiation. This is -to-the electronic muchanism of dehydrogenation and other reactions of cyclomexanc. The formation of positive C6H6 ions during radiolysis of benzene adcorbed he silicage: shows the possible donor adsorption of cyclic hydrocalbons to radiation defects; this is additional evidence for the mechanism of radiation catalysis. "The authors thank R. Kh. Burshteyn for providing the sample of Ni catalyst, and A. N. Ponomareva and G. L. Karpova for carrying out the mass-

## "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320008-8

L 15296-65
ACCESSION NR: AF4047688

spectrometric analysis." Orig. art. has: 5 figures and 2 tables.

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR (Institute of Chemical Physics, AN SSSR)

SUBNITTED: 12Nov63 ENCL: 00 SUB CODE: OC

NO REF SOV: 007 OTHER: 008

L 15296-65

ACCESSION NR: AP4047688

spectrometric analysis." Orig. art. has: 5 figures and 2 tables.

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR (Institute of Chemical

Physics, AN SSSR)

SURMITTED: 12Nov63

ENCL: 00

SUB CODE: OC

NO REF SOV: 007

OTHER: 008

Card 3/3

CIA-RDP86-00513R000721320008-8

BORESKOV, G.K.; BUKANAYEVA, F.M.; D713'KO, V.A.; KA7ANSKTY, V.B.; PECHERSKAYA, Yu.I.

Electron paramagnetic spectra of deposited chromium oxide catalysts used for ethylene polymerization, and the nature of their activity. Kin. 1 kat. 5 no.3:434-440 My-Je '64.

l. Institut kataliza Sibirskogo otdeleniya AN SSSR i Institut khimicheskoy fiziki AN SSSR.

#### "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320008-8

L 6716-65 Fatis (Fills Table) To Table (Table) To Table (Table) To Table (Table) To Table (Table) The nature of active centers in hydrogen isotope exchange reaction on irrediated silica gel.

SOURCE: An SSSR. Doklady, v. 157, no. 2, 196h, 38h-387

TOPIC TAGS: hydrogen, douterius, silica gel, electron paramagnetic resonance spectrophotometry isotope exchange, irreversible adsorption. Assumbly hydrogen deuterius ex hange reaction

ARSTRACT: The purpose of this work was to study the nature of Farentee irrediated silica gel by optical methods and by realizapectris-optical their role in irreversible adsorption of hydrogen and alarytic translation at the state of th

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320008-8"

1 6716-65 ACCESSION NR: APAO42209 equimolar content of the mixture at 770 K and 0.7 mm pressure. The danters composition of hylorger is the course of resultion on many or rengines authorized by site inpition in the control The Control of The state of the s Spertmer grave the state of the s merter of the CO Synthesist of the control of the · " from pyrroger atom to holes with consequential rejuction for does not provided at the control of and deutert m at lives' mours on the very same centers, however, and only accompanied by dissociation but it merely results in years its RICHE ALLES ADDITIONS OF THE STATE OF THE ST fissociation type to suscription increases which results in vanishing centers. The one my comuniformity of the radiation protocol less ... fact that even at many temperature part of them remains the conirreversible miss poton of sylvagen. These defects are catalytt a. . . . Cord 21's

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320008-8"

CHARLES AND A CANADA PARAMANANA

L 6716-65

ACCESSION NR: APholis209

centers. Orig. art. has: 2 tables and 3 figures.

ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemi-

cal Physics, Academy of Sciences SSSR). Institut kataliza Sibirekogo otdelenira Akademii nauk SSSF (Institute of Catalysis Siberian Branch tom ser

Sciences BSSR)

SUBMITTED: 29Mar64

ENCL: 02

SUB CODE: NP, CC

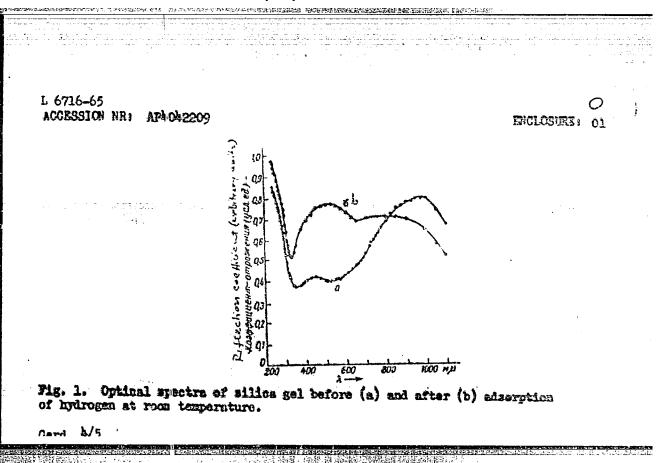
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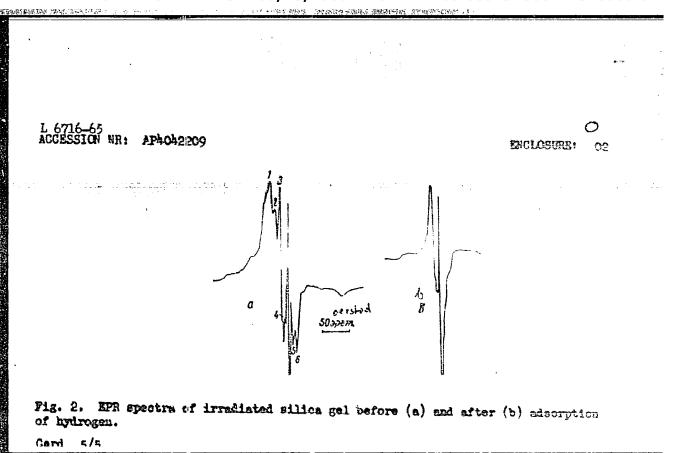
OTHER: 011

2

Card

3/5





1. 47076-55 Par(1)/EP(4)-2/FEC(1) Pt-7/P1-4 IJP(3) 37
ACCESSION NR: AP5/07041 S/0120/65/000/001/0123/0127

AUTHOR: Kazanskiy, V. B.; Stepin, L. D.; Ugrinskiy, L. L.

TITLE. Outfit for measuring the dielectric constant and dielectric-loss as see of

SOURCE: Pripary i toklunika eksperimenta, no. 1, 1965, 123-127

TOPIC TAGS: dielectric constant, dielectric loss, 10 cm band, dielectric liquid

ABSTRACT: The instrument is based on the Holm-resonator method of measurement. The test liquid in a glass or quartz tube is placed along the resonator axis. Variation of the natural frequency and O-factor of the resonator due to introduced inecomen serves as a basis for estimating food to the American electron-tube circuit of the outfit is presented. And some desking statisf explaint 1. Data for distilled water, acetone, nitrobenzene, methyl and most alcohols obtained with an error of \$5% and \$17% for \$\epsilon\$ and the resonator is compared with that published by Western researchers. Orig. art. has 5 figures and 1 table.

Cord 1/2

## "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320008-8

CCESSION NR: AP500704	1		
SSOCIATION: Khar'kovsk	ly universitet (Khar'kov	University)	
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MASSICHEMEO, A.L., SHERRING, T.M., KARANSKIE, V.D., KICFIEV, Y.P.

Appearance of electron paramagnetic resonance signal during the low-temperature adsorption of various gases on reduced rutile (IiC2). Teoret, 1 eksper, khim, 1 ro.3:381-386. MyLJs 165.
(MIRA 18:9)

1. Inacticut khimicheskoy fiziki kli SSSR. Yoskva,

## PECHERSKAYA, Yu.I.; KAZANSKIY, V.B.

Relation between the catalytic activity of chromium oxide catalysts and the valence state of chromium. Kin. i kat. 6 no.2:357-360 Mr-Ap 165. (MIRA 18:7)

1. Institut khimicheskoy fiziki AN SSSR.

ALERSANDROV, I.V.; KAZANSKIY, V.B.; MIKHEYKIN, I.D.

Electron paramagnetic resonance studies of the structure of sotive centers of chromium oxide catalysts for ethylene polymerization. Kin.i kat. 6 no.32439-447 My-Je 165.

(MTRA 18:10)

1. Institut khimicheskoy fiziki AN SSSR.

PARLYSKIY, G.B.; MISHCHENKO, Yu.A.; KAZANSKIY, V.B.

Nature of radiations wheread surface defects in irradiated silica gel. Part 1: Mechanism o hydrogen adsorption, Kin, i kat, 6 no.4:625-633 Jl-Ag 165. (MIRA 18:9)

1. Institut khimicheskoy fiziki AN SOSE.

PECHERSKAYA, Yu.I.; KAZANSKIY, V.B.

Inhibition mechanism of ethylene polymerization on chromium oxide catalysts. Dokl. AN SSSR 162 no.5:1101-1104 Je '65. (MIRA 18:7)

1. Institut khimicheskoy fiziki AN SSSR. Submitted December 3, 1964.

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#### CIA-RDP86-00513R000721320008-8

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AN/037010

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SOURCE CODE:

UR/0181/66/008/011/3418/3420

AUTHOR: Kazanskiy, V. B.; Korolyuk, A. P.

ORG: Institute of Radiophysics and Electronics, AN UkrSSR, Khar'kov (Institut radiofiziki i elektroniki AN UkrSSR)

TITLE: Giant quantum oscillations of the absorption coefficient of ultrasound in

SOURCE: Fizika tverdogo tela, v. 8, no. 11, 1966, 3418-3420

TOPIC TAGS: ultrasound absorption, antimony, quantum oscillation, electron interaction, phonon interaction

ABSTRACT: In view of the increased interest in the characteristics and the Fermi surface of semimetals, the authors measured the amplitudes and periods of giant quantum oscillations in antimony using 350-MHz ultrasound at 1.8K, in magnetic fields up to 110 kOe. The magnetic field was produced by discharging a capacitor bank through a liquid-hydrogen cooled solenoid. The duration of the magnetic field pulse from maximum to 50 kOe was 0.25 sec. The oscillations were recorded with an oscilloscope. The sample was cut from a single crystal in the form of a disc 7 mm in diameter and 2.5 mm thick. The wave vector of the sound was perpendicular to the surface of the sample and parallel to the binary axis. The experimental values of the periods of the giant quantum oscillations were found to be in agreement with a theoretical formula derived by one of the authors earlier (Korc'yuk, ZhETF v. 51, 697, 1966). The measured amplitudes are used to calculate the energy of the electron-

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phonon interaction, which is found to decrease from 7.2 to 6.0 ev at 0 and 30° respectively, and them increase to 6.3 ev at 36°. The anisotropy of the electron-phonon interaction energy is found to be small in the plane of the binary axis. The absolute value of the energy of the electron-phonon interaction in antimony is thus found to be close to its value in good metals, in spite of the low carrier density. Orig. art. has: 2 figures, 2 formulas, and 1 table.

SUB CODE: 20/

SUBM DATE: 02Jun66/

ORIG REF: 003/

OTH REF: 003

Card 2/2

YEZHKOVA, Z.I.; IOFFE, Z.I.; KAZANSKIY, V.B.; KRYLOVA, A.V.; LYUBARSKIY, A.G.; MARGOLIS, L.Ya.

Activity, structure and the electric properties of mixed vanadium catalysts. Kin. i kat. 5 no.5:861-867 S-0 '64. (MIRA 17:12)

1. Nauchno-issledovatel'skiy institut organicheskikh poluprovodnikov i krasiteley i Institut khimicheskoy fiziki AN SSSR.

1435-66 ENT(m)/EPI'(c)/EPF(n)-2/T GG/RM
1435-66 EWT(m)/EPI'(c)/EPF(n)-2/T GG/RM  UR/0195/65/006/004/0625/0633  541.183:546.11 + 541.15 45  UR/0195/65/006/004/0625/0633  THOR: Pariyskiy, G. B.: Mishchenko, Yu. A.; Kazanskiy, V. B. 44  ETTLE: Nature of surface radiation defects in irradiated silica gel. I. Mcchanism
muon. Perivskiv. G. B.: Mishchenko, Yu. A.; Kazanskiy, V. B.
The: Nature of surface radiation defects in irradiated silica gel. I. Mechanism hydrogen adsorption 1445
DURCE: Kinetika i kataliz, v. 6, no. 4, 1965, 625-633
OPIC TAGS: radiation defect, silica gel, aluminum impurity, radiation damage, ydrogen adsorption, color center, acid center
BSTRACT: The irradiation of silica gel markedly affects its adsorptional and atalytic properties, since, owing to its highly developed surface, the proportion f surface defects in this substance is particularly large. Thus, irradiated ilica gel irreversibly adsorbs hydrogen. The adsorption is accompanied by the isappearance of the color centers that had formed as a result of irradiation. Both isappearance of the color centers that had formed as a result of irradiation. Both iffects are attributed by Kohn and Taylor (J. Phys. Chem. v. 63, 966, 1959; v. 66,
017, 1962; J. of Catalysis V. 2, 200, 1905, as they have not, however, been successence of aluminum impurities in the specimens; they have not, however, been successence of aluminum impurities in the settembert redistion defects and the mechanism
ul in establishing the nature of the attendant radiation theorem are f hydrogen adsorption. Therefore, to elucidate these questions, the present are
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ticle describes their investigation by adsorptional, optical, and radiospectroscopic methods. Three varieties of silica gel, each obtained by a different method and having a different content of impurities, were investigated. The first, K-5, was obtained by hydrolysis of a SiCl, solution and had a surface area of 700±50 m<sup>2</sup>/g. The two other specimens were obtained by adding H<sub>2</sub>SO<sub>1</sub> to solutions of sodium silicate; the acid was added until a IN acid solution was obtained, whereupon the precipitate was carefully washed to remove the sulfate ion and dried for 4 hr et 500°C. The surface arms of both specimens, which were tagged silica gels I and II, was  $300\pm50_2$ m²/g. The appecimens were irradiated with a  $Co^{50}$   $\gamma$ -radiation source (doses: 106 to 2.5 x 107 r). Their absorption spectra in reflected light were then measured with an SF-4 spectrophotometer and their EPR spectra, with an EPR-2 radiospectrometer. It was Nound that ionizing radiation leads to the formation of free electrons and vacancies. Part of these electrons may be trapped by the protons of the acid centers that had formed as a result of the presence of aluminum impurity, thus leading to the formation of hydrogen. At room temperature the stabilization of H atoms does not occur, and they may react with hydroxyl groups, causing dehydration of the surface. Following departure of the H atom, on the Al atom there remains an uncompensated negative charge which may be neutralized when the vacancy on the adjacent O atom gets stabilized. Thus, the color centers forming under the

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action of irradiati present positively the atoms of Al imp	charged vacan urity. These ors wish to ex this project	the presence of Al icies stabilized on the defects are centers press their sincere and discussion of the	of irreversible adsorratitude to G. K. Bo	orption of preskov
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L 1327-66 EWT (m)/EPF (c)/EPF (n)-2/EWP(j)/EWA(h)/EWA(1) GG/RM  ACCESSION NR: AP5024005 UR/0020/65/164/002/0361/0364	The state of the s
AUTHOR: Vladimirova, V. I.; Zhabrova, G. H.; Kadenatsi, B. M.; Kazanskiy, V. B.; Pariyskiy, G. B.	
TITLE: Radiation-catalytic conversion of methanol 1	
TOPIC TAGS: methanol, gumma radiation, radiation chemistry, electron paramagnetic resonance, free radical silies and all resonances.	
resonance, free radical, silica gel, alumina, aluminum silicate, semiconductor, heterogeneous catalysis	
ABSTRACT: The authors had established earlier that during the combined action of ionizing radiation and solids of different electronic properties, the dielectric-type oxides SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , and aluminum silicate SiO <sub>2</sub> ·Al <sub>2</sub> O <sub>3</sub> , in which paramagnetic centers and adsorbed radicals were detected, displayed the greatest activity in the conversion of cyclohexans in the adsorbed layer, whereas semiconductors and metals, which had no paramagnetic centers or radicals, were inactive. In order to determine the scope of these directors are resident.	ļ — 1
mine the scope of these findings, a similar study was made on the radiation-cataly- tic decomposition of methanol in the adsorbed layer at 20°C, CO <sup>60</sup> gamma radiation being used (dose rate, 4.3 x 10 <sup>16</sup> , ev/g·sec; ladsorbed radiation dose, 8.2 x 10 <sup>19</sup> to	
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 $7 \times 10^{21}$  ev/g). It was found that as in the case of the heterogeneous radiolysis of cyclohexane, SiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>, and SiO<sub>2</sub>-Al<sub>2</sub>O<sub>3</sub> were the most effective catalysts for methanol; the radiation-chemical yield and rate of formation of hydrogen, formaldehyde, and ethylene glycol on silica gel were ten times as high as in the case of homogeneous radiolysis. The electron spin resonance spectra of the radicals formed on SiO<sub>2</sub> and Al<sub>2</sub>O<sub>3</sub> were recorded. Oxides with semiconducting properties such as 2nO showed a considerably lesser catalytic activity. The results confirm the relationship established earlier between the radiation-catalytic activity of solids and their electronic properties. The high radiation-chemical yields of hydrogen, formaldehyde, and ethylene glycol during decomposition of methanol on silica gel, aluminum oxide, and aluminum silicate are apparently closely related to the processes of transfer of the energy of ionizing radiation absorbed by these solids to the molecules adsorbed on the surface. Orig. art. has: 1 figure, 1 table. [14]

ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemical Physics, Academy of Sciences, SSSR)

SUBMITTED: 04Feb65

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OTHER: 004

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Card 2/2

Improvement of the quality of automobile gasoline in the petroleum refinery of the Kuybyshev Economic Council. Neftianik 7 no.6:20-21 Je 162. (MIRA 15:8)

A.

Some features of breaks in limestone-shale strata. Trudy Inst.geol. nauk no.162:109-119 '55. (MIRA 8:11) (Limestone) (Shale)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320008-8"

Distribution of upper Mesozoic granitoid intrusives and contours of ore-bearing areas in the Pacific ore belt. Geol.rud.mestorozh. no.4:3-18 Jl-Ag 161. (MIRA 14:10)

l. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya, Moskva.

(Far East--Ore deposits)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320008-8"

KAZANSKIY, V. J.

Kazanskiy, V. I. "The separation of volatiles from the magnatic hearth," In the collection: Nauch. ratoty studentov gorno-metallurg. in-tov Moskvy. Moscow, 1949, p. 136-44, - Bibliog: 12 items

SO: U-493h, 29 Oct 53, (Letopis 'Zhurnal 'Nykh Statey, No. 16, 19h9).

Primary sources of gold in the Lesser Khingan Mountains. Geol.-rud.mestorozh. no.2:109-113 Mr-Ap '62. (MIRA 15:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya.

(Khingan Mountains-Gold ores)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320008-8"

And the presentation of the present of the present

KAZANSKIY, V.I.; YAKSHIN, V.M.

Effect of enclosing rocks on the geology of dislocations with a break of continuity. Trudy IGEM no.41:134-140 '61. (MIRA 14:8) (Geology, Structural)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320008-8"

Metamorphism of rocks in some fault zones of the Lesser Khingan Mountains. Geol.rud.mestorozh. no.6:19-32 N-D '62. (MIRA 15:12)

1. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR.

(Khingan Mountains—Metamorphism (Geology))

Inner structure of Archean faults in the central Aldan region.

Geol. rud. mestorozh. 7 no.2:63-79 Mr-Ap '65. (MIRA 18:7)

l. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii Alï SSSR, Moskva.

Recent structures of the earth crust; rejuvenation of platforms and mineralization. Priroda 54 no.9:51-58 S '65.

(MIRA 18:6)

1. Institut geologii rudnykh mestorozhdeniy, petrografii, mine-ralogii i geokhimii AN SSSR, Moskva.

General meeting of the Department of Earth Sciences of the Academy of Sciences of the U.S.S.R. Geol. rud. mestorozh. 7 no.3:124-125 My-Je '65. (MIRA 18:7)

Kazans'dy, V. I. - "The mexillery values of fish enlayes in the form of large oscillating combranes", Trudy Astrabh. cos. med. in-ta, Vol Ix, 1942, p. 79-81.

So: U-3042, 11 March 53, (Letopis 'Zhurnal 'nykh Statey, Mo. 8, 1949).

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KAZANSTI, N. I.

Kazanshiy, V. I. - "New investigations of the robility of the erro of tike in the early stages of embryological development", Trudy Astrakh, gas. med. in-ts, Vol. IX, 1948, p. 82-83.

So: U-3042, 11 March 53, (Letopis 'Zhurnal 'nykh Statey, Mr. 8, 1949).

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20120 KAZANSKII, V. I. Lecheniye ostrykh protoraksov. V sb i Voprosy grudnoy khirurgii T.P.M., 1949, s. 31-50.

SO: LETOPIS ZHURNAL STATEY, Vol. 27, Moskva, 1949.

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Letonis' Zhurnal'nykh Statey, Vol. 48, Eoskva, 1949

KAZANSKIY, V. I.

USSR (600)

Mediastinum

Certain possibilities in surgery of coronary insufficiency; mediastinal anesthesia., Khirurgiia, no. 1, 1952.

Monthly List of Russian Accessions, Library of Congress, April 1952. UNCLASSIFIED.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320008-8"

VILOVYSKIY, A. L.: KAZANSKIY, V. I.

USSR (600)

Coronary Arteries - Diseases

Development of collateral cardiac circulation in coronary disorders. Klin. med., 30, no. 1, 1952.

Monthly List of Russian Accessions, Library of Congress, May 1952. UNCLASSIFIFD.

[Cancer; diagnosis and treatment; a popular scientific sketch]
Rak; profilaktika, diagnostika i lechenie. Mauchno-populiarnyi
ocherk. Moskva, Medgis, 1953. 63 p. (MLRA 8:12)
(GANCER)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320008-8"

PETROV, B.A., professor, predsedatel; DUBEYKOVSKAYA, E.G., sekretar; BGAN-TSEV, N.I., kandidat meditsinskikh nauk; TERNOVSKIY, S.D., professor; MELIK-ARUTYUNOV, A.I. kandidat meditsinskikh nauk; PATSIORA, M.D., kandidat meditsinskikh nauk; PATSIO

Minutes of the session of the Surgical Society of Moscow and Moscow Province of September 12, 1952. Khirurgiia no.3:88-92 Mr 153. (MLRA 6:6)

1. Khirurgicheskoye obshchestvo Moskvy i Moskovskoy oblasti. (Spleen--Surgery)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320008-8"

VISHNEVSKIY, A.A. professor, predsedatel; CHISTOVA, M.A., sekretar; FESHISHEVA, A.A.; KRICHEVSKIY, A.A., kandidat meditsinskikh nauk; UTESHEV.

S.S., kandidat meditsinskikh nauk; BEGEL MAN, A.A., kandidat meditsinskikh nauk; YELANSKIY, N.N.; ZATSEPIN, T.S. professor; PLOTKIN, F.M., professor; PATSIORA, M.D.; KAZANSKIY, V.I., professor; TROYAN, I.V.; FEDOROV, I.P.; FILTPPOV, A.V.; UTESHEV, S.S.; DOROFEYEV, V.I.

Minutes of the session of the Surgical Society of Moscow and Moscow Province of September 26, 1952. Khirurgiia no.3:92-95 Mr 153. (MLRA 6:6)

1. Khirurgichekoye obshchestvo Moskvy i Moskovskoy oblasti. 2. Fakul'tetskaya 'thirurgicheskaya klinika sanitarno-gigiyenicheskogo fakul'teta I Moskovskogo ordena Lenina meditsinskogo instituta (for Krichevskiy). (Heart--Surgery) (Arteries--Diseases)

PETROV, B.A., professor, predsedatel; DOROTENV, V.I., sekretar; MLYNCHIK, V.Z.; KAZANSKIY, V.I., professor; BANIJLEV, A.N., professor; LEVIT, V.S., professor; PETROVSKIY, B.V., professor; PECHATNIKOVA, E.A.; SOLOV'YEV, A.Ye., professor; MAKHOV, N.I., dotsnet; YELANSKIY, N.N. professor; PIOTKIN, F.M., professor; VISHNEVSKIY, A.A., professor; VETCHINKIN, Yu.M.; GUREVICH, N:I., professor; OSIPOV, B.K., professor; TIKHONOVA, N.A.; RY-ZHIKH, A.N. professor; RUDYAVSKIY, B.A.; TERNOVSKIY, S.D., professor.

Minutes of the session of the Surgical Society of Moscow and Moscow Province of October 10, 1952. Khirurgiia no.4:92-95 Ap 153. (MLRA 6:6)

1. Khirurgicheskoye obshchestvo Moskvy i Moskovskoy Oblast.
(Esophagus--Surgery) (Esophagus--Cancer) (Rectum--Diseases)

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sewetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1954)

Rame

## Title of Work

Nominated by

Kazanskiy, V. I.

\*Transpleural Resection of the Thoracic Portion of the Esophagus in Cases of Cancer<sup>B</sup> Central Clinical Hospital Ministry of Railways USSR

80: W-30604, 7 July 1954

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320008-8"

[Cancer and its prevention; contemporary theory on malignant tumors]
Rak i ego predyprezhdonie; sovremennoe uchenie o zlokachestvennykh
opukholiakh. Moskva, Medgiz, 1954. 97 p.

(Cancer) (Tumors)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320008-8"

KAZANSKIY, V.I., professor.

Surgical treatment of coronary insufficiency; second report.

[MLRA 7:5]

1. Iz TSentral'noy Elinicheskoy bol'nitsy Ministerstva putey soobshcheniya (nachal'nik - general-direktor V.N.Zakharchenko).

(Coronary arteries--Diseases)

KAZANSKIY, V.I., professor (Moskva)

Considerations on A.A.Poliantsev's article, "Dextrolateral surgical technique in exophagogastric anatomosis." Vest. khir. 74 no.4: 84-85 Je '54. (MLRA 7:7)

(ESOPHAGUS, surgery, \*excis., approach & prep. of stump in portial & total surg.)

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N/5 644.2 .K2

Kazanskiy, V

I

Cancer and its prophylactics (Modern theory of malignant tumours) Moscow, Foreign Languages Publishing House, 1955.

95 p.

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CONTROL OF THE PROPERTY OF THE

Summaries of papers presented at the IXVI Congress of Surgeons of the USER, Moscow, 20 - 27 January 1955, included:

Surgical Treatment of Coronary Insufficiency.

V. I. KAZANSKY

-A-46019 (Official Publication) Unclassified.

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KAZANSKIY, V.I., professor.

**为了是是我们的自己的主要的,但是**我们就是这种的,但是是我们们就是我们就是我们们就是我们就是我们的,

Clinical aspects of diseases preceding cancer of the stomach.

A.V.Mel'nikov. Reviewed by V.I.Kazanskii. Khirurgiia no.7:9194. J1 '55. (MLRA 8:12)

(STOMACH--DISEASES) (STOMACH--CANCER) (MEL'NIKOV, A.V.)